

Convergence for step line processes under summation of random indicators and models of market pricing

Chuprunov A., Rusakov O.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

Functional limit theorems for random step lines and random broken lines defined by sums of iid random variables with replacements are obtained and discussed. Also we obtained functional limit theorems for integrals of such random processes. We use our results to study a number of models of the financial market.
